AMENDMENTS TO CLAIMS

Please amend claims, 1, 2, 4, 10, 12, 13, 22, 23 and 32-34. All pending claims are reproduced below, including those that remain unchanged.

1. (Currently amended) A system to process an XML document, comprising:

a streaming parser capable of parsing an XML document and to generate ing a stream of at least one events, wherein each event in the stream can represent a portion of the document;

a matching component capable of:

accepting the stream of events from the streaming parser;

keeping in memory only a subset of the stream of events at any time; performing a matching on an event in the subset of the stream of events; and

notifying an observer if the event is a matched event;

said observer capable of listening for a the matcheding event and passing it to a user object; and

said user object capable of handling the matcheding event.

2. (Currently amended) The system according to claim 1, wherein: the XML document can be is represented in a hierarchical structure.

3. (Original) The system according to claim 2, wherein:

the hierarchical structure can be a tree with each node containing a portion of the document.

4. (Currently amended) The system according to claim 3, wherein:

the streaming parser is capable of generating the stream of events by performing a method, comprising:

traversing the XML tree and adding visited nodes into a data structure; processing the nodes in the data structure and generating an event for each node; and

appending the event to the output stream.

- 5. (Original) The system according to claim 4, wherein:
 the tree can be traversed using a breath-first or depth-first search.
- 6. (Original) The system according to claim 4, wherein: the data structure can be a queue.
- 7. (Original) The system according to claim 4, wherein: the data structure can be processed using a first-in-first-out approach.
- 8. (Original) The system according to claim 1, wherein:
 the matching component is capable of keeping only a portion of the XML document in memory at any given time.
- 9. (Original) The system according to claim 1, wherein: the matching component is capable of knowing the schema of the XML document and foreseeing the coming events.
- 10. (Currently amended) The system according to claim 1, wherein: the matching can be component is capable of performing an expression-based match, which can be an XPath query.
- 11. (Original) The system according to claim 3, wherein:
 the matching component is capable of keeping, cloning and destroying the entirety or a portion of the sub-tree descending from a node in the tree.
- 12. (Currently amended) The system according to claim 1, wherein: the user object is capable of returning the matcheding event to an XML stream for use by any other component.
- 13. (Currently amended) A method for processing an XML document, comprising:

parsing an XML document and to generate ing a stream of at least one events, wherein each event in the stream can represent a portion of the document; accepting the stream of events and keeping in memory only a subset of the stream of events at any time;

performing a matching on an event in the <u>subset of the</u> stream <u>of events;</u> and notifying an observer if the event is a matched event; listening for a <u>the</u> matcheding event and passing it to a user object; and handling the matcheding event.

- 14. (Original) The method according to claim 13, further comprising:
 representing the XML document in a hierarchical structure, which can be a tree with each node containing a portion of the document.
- 15. (Original) The method according to claim 14, wherein:
 the parsing of the XML document comprises the steps of:
 traversing the XML tree and adding visited nodes into a data structure;
 processing the nodes in the data structure and generating an event for each node; and
 appending the event to the output stream.
- 16. (Original) The method according to claim 15, wherein:
 the XML tree is traversed using a breath-first or depth-first search.
- 17. (Original) The method according to claim 15, wherein: the data structure is processed using a first-in-first-out approach.
- 18. (Original) The method according to claim 13, further comprising: keeping only a portion of the XML document in memory at any given time.
- 19. (Original) The method according to claim 13, further comprising:knowing the schema of the XML document and foreseeing the coming events.

- 20. (Original) The method according to claim 13, further comprising: performing an expression-based match, which can be an XPath query.
- 21. (Original) The method according to claim 14, further comprising:
 keeping, cloning and destroying the entirety or a portion of the sub-tree descending from a node in the tree.
- 22. (Currently amended) The method according to claim 13, further comprising: returning the matcheding event to an XML stream for use by any other component.
- 23. (Currently amended) A machine readable medium having instructions stored thereon that when executed by a processor cause a system to:

parse an XML document and to generate a stream of at least one events, wherein each event in the stream can represent a portion of the document;

accepting the stream of events and keeping in memory only a subset of the stream of events at any time;

perform <u>a</u> matching on an event in the <u>subset of the</u> stream <u>of events</u>; and notify an observer if the event is a matched event;

listen for a the matcheding event and pass it to a user object; and handle the matcheding event.

- 24. (Original) The machine readable medium of claim 23, further comprising instructions that when executed cause the system to:
 - represent the XML document in a hierarchical structure, which can be a tree with each node containing a portion of the document.
- 25. (Original) The machine readable medium of claim 24, further comprising instructions that when executed cause the system to:

parse the XML document, comprising the steps of:

traversing the XML tree and adding visited nodes into a data structure;

processing the nodes in the data structure and generating an event for each node; and

appending the event to the output stream.

26. (Original) The machine readable medium of claim 25, further comprising instructions that when executed cause the system to:

traverse the tree using a breath-first or depth-first search.

27. (Original) The machine readable medium of claim 25, further comprising instructions that when executed cause the system to:

process the data structure using a first-in-first-out approach.

28. (Original) The machine readable medium of claim 23, further comprising instructions that when executed cause the system to:

perform an expression-based match, which can be an XPath query.

29. (Original) The machine readable medium of claim 23, further comprising instructions that when executed cause the system to:

keep only a portion of the XML document in memory at any given time.

30. (Original) The machine readable medium of claim 23, further comprising instructions that when executed cause the system to:

know the schema of the XML document and foresee the coming events.

31. (Original) The machine readable medium of claim 24, further comprising instructions that when executed cause the system to:

keep, clone and destroy the entirety or a portion of the sub-tree descending from a node in the tree.

32. (Currently amended) The machine readable medium of claim 23, further comprising instructions that when executed cause the system to:

return the matcheding event to an XML stream for use by any other component.

33. (Currently amended) A system for processing an XML document, comprising:

means for parsing an XML document and to generate ing a stream of at least one

events, wherein each event in the stream can represent a portion of the document;

means for accepting the stream of events and keeping in memory only a subset of

the stream of events at any time;

means for performing a matching on an event in the subset of the stream of

events; and

means for notifying an observer if the event is a matched event;

means for listening for a the matcheding event and passing it to a user object; and

means for handling the matcheding event.

34. (Currently amended) A computer data signal embodied in a transmission medium,

comprising:

a code segment including instructions to parse an XML document and to generate

a stream of at least one events, wherein each event in the stream can represent a

portion of the document;

a code segment including instructions to accepting the stream of events and

keeping in memory only a subset of the stream of events at any time;

a code segment including instructions to perform a matching on an event in the

subset of the stream of events; and

a code segment including instructions to notify an observer if the event is a

matched event;

a code segment including instructions to listen for a the matcheding event and

pass it to a user object; and

a code segment including instructions to handle the matcheding event.

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